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Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-85. (Cancelled)

- 86. (Currently Amended) A continuous carbon fiber comprising single-wall carbon nanotubes in substantially parallel orientation, wherein a substantial portion of the single-wall carbon nanotubes have a homogeneous characteristic selected from the group consisting of lengths, diameters, helicities and combinations thereof and of elaim 84-having a composite structure comprising:
 - a) a first plurality of single-wall carbon nanotubes in a first region having a first homogeneous characteristic, wherein the first homogeneous characteristic is selected from the group consisting of lengths, diameters, helicities and combinations thereof;
 - b) a second plurality of single-wall carbon nanotubes in a second region having a second homogeneous characteristic, wherein the second homogeneous characteristic is selected from the group consisting of lengths, diameters, helicities and combinations thereof; and
 - c) wherein the first homogeneous characteristic is different from the second homogeneous characteristic.
- 87. (Previously Presented) A composite fiber comprising a plurality of continuous carbon fibers, wherein each of the continuous carbon fibers comprise single-wall carbon nanotubes in substantially parallel orientation.
- 88. (Previously Presented) The composite fiber of claim 87 wherein the composite fiber is a cable-like structure.
- 89. (Currently Amended) The A composite fiber of claim-87 further comprising a plurality of continuous carbon fibers, wherein each of the continuous carbon fibers comprise

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single-wall carbon nanotubes in substantially parallel orientation, wherein the composite fiber further comprises:

- a) a central core comprising metallic single-wall carbon nanotubes; and
- b) non-metallic single-wall carbon nanotubes, wherein the non-metallic single-wall carbon nanotubes surround the central core.
- 90. (Previously Presented) The composite fiber of claim 87 wherein at least some of the single-wall carbon nanotubes in at least a portion of the composite fiber are not parallel.
- 91-93. (Cancelled)
- 94 (New) The fiber of claim 86 wherein the first region and the second region are in different segments along the axis of the fiber.
- 95. (New) The fiber of claim 86 wherein the first region and the second region are simultaneously present in a cross-section of the fiber.